
Attachment J02

Sierra Army Depot (SIAD) Wastewater System

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J02 Sierra Army Depot Wastewater System

J02.1 Sierra Army Depot Area Overview

Sierra Army Depot (SIAD) is located in sparsely populated Lassen County in northeast California, approximately forty miles southeast of Susanville and fifty-five miles northwest of Reno, Nevada.

“Sierra serves as the U.S. Army's Rapid Delivery Logistics Facility and a DOD strategic power projection support platform providing world-wide, world class logistics support in the form of maintenance, assembly, and containerization as the Army's only (CITE) Center of Industrial Technical Excellence for critical operational project stocks including deployable medical systems, medical supplies, petroleum and water

systems, aviation systems, Force provider and other items. Store and care take demilitarization account ammunition. On order, become the Center of Industrial Technical Excellence for Resource Recovery, Recycle and Reuse (R3) ammunition demilitarization. In these days of change and increased competition, Sierra has adopted a competitive corporate philosophy with the vision: "To be the preferred source of war reserves and remain the Army's center of excellence for all project stocks and be the recognized leader in munitions demilitarization." The aggressive and diversified workforce, known as Team Sierra, represents one of the best in the Department of Defense. They are committed to continuing to provide the best quality products and services to their customers, as they have done for nearly sixty years. From its beginnings, with General Order No. 9, signed by General George C. Marshall on February 2, 1942, Sierra Army Depot has established an enviable record of service mainly because of a most important resource--its people. Sierrans have made major contributions to our Armed Forces and our country since the establishment of the Army installation".

Source: Sierra Army Depot web page www.sierra.army.mil

J02.2 Wastewater System Description

The SIAD existing wastewater system was constructed in the early 1940s and it is composed of two independent wastewater collection systems. Both systems consist of a series of gravity-fed collection pipelines and laterals with one intermediate lift station. The larger system serves the Cantonment Area as well as the West Patton Village Community Service District (WPVCSD) Area. It is comprised primarily of vitrified clay pipes raging in size from four to fifteen inches in diameter. Most mains are in the six to twelve inches diameter range. The smaller system serves the Eastern Warehouse Area. It is also comprised primarily of vitrified clay pipes, with most mains in the six to eight inches diameter size. All effluent is collected into mains and then routed to two sewage treatment lagoons. The lagoons for the Cantonment area were constructed in 1954 and upgraded in 1965, 1993, 1996, and 2003. The main system consists of three main cells and one two-acre polishing pond constructed in late 1997. The lagoons for the warehouse system were built in 1972. The treatment facility has a capacity of 5,000 gallons per day.

Below is the description of the system and its inventory. They are included in this section to provide the Offeror with a general understanding of the size and configuration of the system. The Offeror shall base the proposal on site inspections, information in the bidder's library, other pertinent information, and to a lesser degree the following description. Under no circumstances shall the successful Contractor be entitled to any rate adjustments based on the accuracy of the following system description and inventory.

The Contractor shall comply with all applicable federal, state, and local regulations governing the operation of the wastewater system.

J02.2.1 Wastewater System Fixed Equipment Inventory

J02.2.1.1 Description

The existing SIAD wastewater system consists of 2 wastewater treatment plants and over 10 miles of gravity collection mains. There are no lift stations or force mains controlled by SIAD.

1. Gravity Collection Mains

The gravity collection system consists of over 10 miles of piping ranging from 6 to 15 inches in diameter. Over 85% of the collection lines are constructed of vitrified clay. The remaining piping is a combination of asbestos-cement, PVC, and reinforced concrete.

2. Manholes

There are close to 200 manholes in the collection system. These manholes are constructed of primarily cast-in-place or pre-cast concrete.

3. Wastewater Treatment Facilities

There are two existing wastewater treatment facilities at SIAD. The smaller of the two systems serves only the warehouse area of SIAD. This plant is an anaerobic lagoon system. The plant currently operates with two primary ponds. Each pond is approximately 1 acre in area with a 3-4 foot liquid depth. Flow is expected to completely evaporate from this system, with no discharge. The flow meter is a Sigma model 950 with a bubbler level sensor.

The large wastewater plant uses a facultative lagoon process with discharge to a set of three wetland cells. Four wetland cells are present, but the plant design is currently approved using three. Currently, the system operates with a lagoon that is aerated by floating surface aerators, followed by an anaerobic polishing pond. One of the cells is a newly active cell with a bentonite natural liner and newly planted wetland vegetation. The other two cells will be used as overflow cells to accommodate temporary increase flows. Two new transfer pumps from the polishing pond to the wetlands was installed in 2003. The flow meter is a Sigma model 950 with an electronic level sensor.

J02.2.1.2 Inventory

Table 1 provides a general listing of the major collection system fixed assets for the Sierra Army Depot. The system will be sold in a “as is, where is” condition without any warranty, representation, or obligation on the part of Government to make any alterations, repairs, or improvements. Ancillary equipment attached to, and necessary for, operating the system, though not specifically mentioned herein, is considered part of the purchased utility.

Table 1

Item	Size (in)	Quantity (Approximately)	Unit
Vitrified Clay/Reinforced Concrete Piping	15	5,700	Linear feet
	12	5,800	Linear feet
	10	1,800	Linear feet
	8	31,000	Linear feet
	6	5,600	Linear feet
Manholes		140	Each

Main WWTP – 3-cell lagoon treatment system with floating surface aerators in two cells and 3 wetland disposal cell.

Warehouse WWTP – 2-cell evaporative lagoon system with 2 overflow cells.

J02.2.2 Wastewater Distribution System Non-Fixed Equipment and Specialized Tools Inventory

Government-owned tools, vehicles and equipment that are not a physical part of the water distribution system and are used by the Government for system operation and maintenance shall remain the property of the Government.

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment and tools. The successful Contractor shall provide any and all equipment, vehicles, and tools, whether included in the purchase or not, to maintain a fully operating system under the terms of this contract.

Table 2
Spare Parts
Wastewater Distribution System

Qty	Item	Make/Model	Description	Remarks
None.				

Table 3
Specialized Equipment and Vehicles
Wastewater System

Description	Quantity	Location	Maker
None.			

J02.3.3 Wastewater System Manuals, Drawings, and Records Inventory

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

Table 4
Manuals, Drawings, and Records
Wastewater System

Qty	Item	Description	Remarks
The Installation maintains a limited collection of manuals, drawings and records on installed components of the water system. These may not be completely up-to-date and may show elements as active that have been abandoned in place. This information or copies thereof will be transferred during the transition period.			

Sierra Army Depot – SIAD
Utility Privatization
Wastewater System